

# Coastal Ocean Ecosystem Dynamics Imager Pointing Line-of-Sight Solution Development and Testing

Completed Technology Project (2014 - 2015)



## Project Introduction

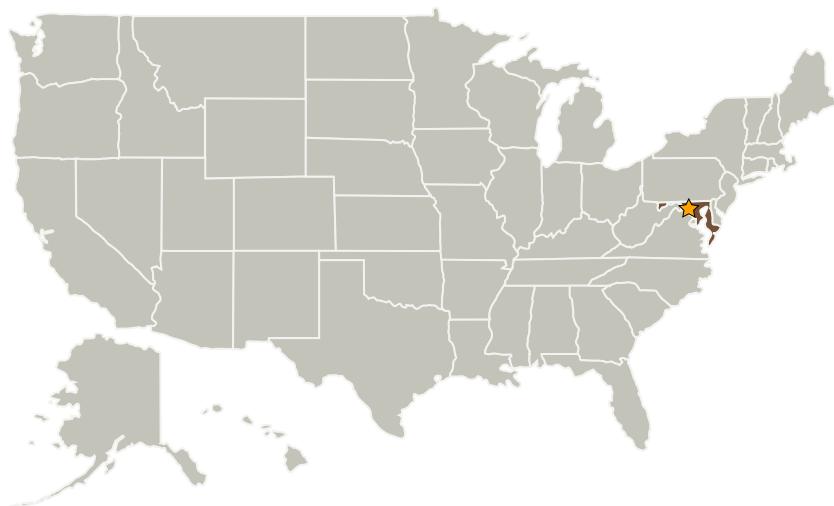
A stable pointing line of sight solution is developed and tested in support of the Coastal Ocean Ecosystem Dynamics Imager for the GEOstationary Coastal and Air Pollution Events (Geo-CAPE) mission.

Imaging instruments flying in geostationary orbit require stable pointing control. This project builds and tests a demonstration system for correcting on-orbit jitter and roll motions.

## Anticipated Benefits

This project could benefit any imager flying in geostationary orbit.

## Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
SGT, Inc.	Supporting Organization	Industry Small Disadvantaged Business (SDB)	



Coastal Ocean Ecosystem Dynamics Imager Pointing Line-of-Sight Solution Development and Testing

## Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations and Key Partners	1
Links	2
Project Website:	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	3
Technology Areas	3

# Coastal Ocean Ecosystem Dynamics Imager Pointing Line-of-Sight Solution Development and Testing

Completed Technology Project (2014 - 2015)



## Primary U.S. Work Locations

Maryland

## Links

GSC-16419-1  
(<https://ntts.arc.nasa.gov/app/>)

## Project Website:

<http://sciences.gsfc.nasa.gov/sed/>

## Organizational Responsibility

### Responsible Mission Directorate:

Mission Support Directorate  
(MSD)

### Lead Center / Facility:

Goddard Space Flight Center  
(GSFC)

### Responsible Program:

Center Independent Research &  
Development: GSFC IRAD

## Project Management

### Program Manager:

Peter M Hughes

### Project Manager:

Matthew J McGill

### Principal Investigator:

Antonio Mannino

### Co-Investigators:

Irving Linares  
William B Monosmith  
James C Smith  
Catherine J Marx

# Coastal Ocean Ecosystem Dynamics Imager Pointing Line-of-Sight Solution Development and Testing

Completed Technology Project (2014 - 2015)



## Technology Maturity (TRL)

Start: **2**  
Current: **3**  
Estimated End: **3**



## Technology Areas

### Primary:

- TX08 Sensors and Instruments
  - └ TX08.1 Remote Sensing Instruments/Sensors
    - └ TX08.1.1 Detectors and Focal Planes